

PATENT ABSTRACTS OF JAPAN

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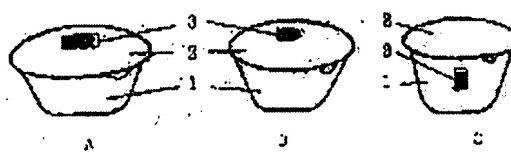
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(54) CUP NOODLE CONTAINER HAVING TIME PASSING DISPLAY BODY WHICH DISCOLORS IN STEPS

(57)Abstract:

PROBLEM TO BE SOLVED: To eliminate such problems that while for the cooking method for a cup noodle, hot water is injected, and after 1 to 5 minutes, which is an optical cooking period of time indicated by the maker, the cut needle can be eaten in the set period of time, it is troublesome to measure the time by a timer, and the noodle is eaten after an approximate period of time, and therefore, the needle is too soft or too hard, and is not eaten under the best and tastiest state desired by the maker at the present time, and also, by any of conventionally suggested display methods for a time passing display body, which point is the color for the completion, processes from the initial stage to the completion of a discoloration, or a remaining period of time are hard to visually measure because the whole surface of the display body gradually discolors in the discoloration processes.



SOLUTION: For this cup noodle container, on the surface of an upper lid 2 or a side surface of a cup needle container 1, the time passing display body 3 which discolors in steps is printed or pasted. In this case, the time passing display body 3 which discolors in steps is made to discolor in steps by using a temperature indicating material or a temperature sensing material, and the time passing until the completion time or the remaining period of time can be visually measured and judged.

CLAIMS

[Claim(s)]

[Claim 1] The instant-noodles container which printed or stuck on the top cover or side face of an instant-noodles container the phase discoloration time amount trace object which consists of a heat-sensitive material, admiration ** material, etc.

[Claim 2] The instant-noodles container which is made to carry out color change of the time amount trace gradually, and can measure the time amount progress and residual time to the last time amount with eyes.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] This invention is what printed or stuck the phase discoloration time amount trace object on the top cover or side face of an instant-noodles container in order to measure the cooking time amount of extempore instant noodles.

[0002]

[Description of the Prior Art] (1) if about 3 billion instant noodles (dried noodles and fresh noodles) per year are produced and the optimal cooking time amount of a manufacturer display has boiling water in 1 minute - 5 minutes as for the cooking method of the conventional instant noodles -- the inside-of-a-house outdoors -- it is immeasurable if the time amount measurement for cooking time amount 1 minute - which is the conditions which are eaten easily anywhere, and which are eaten in the most delicious condition that a manufacturer originally wishes, and 5 minutes is neither a clock nor a timer. However, since time amount is roughly presumed since it is troublesome to measure such measurement by the clock or the timer one by one, and it is eating, the present condition is not eaten in the most delicious condition a manufacturer's wishing originally, extending too much and being too hard.

(3) Attaching a time amount trace object in an instant-noodles container for this reason is already proposed. Although the thing as shown below as such a time amount trace object is proposed, it is the open practical use Heisei 2-69880. Container public presentation practical use Heisei 3-102438 for snack noodles Lid JP,9-132278,A of instant noodles with a timer Extempore Cobb noodles which have time amount trace [0003]

[Problem(s) to be Solved by the Invention] Each method of presentation the above-

mentioned conventional time amount trace object From the first stage (drawing 4 -M-N-a) to last In order that the whole surface of a display object may carry out [the process by the time of the completion of discoloration (drawing 4 -M-N-b)] color change gradually, There is a trouble of being hard to judge which time (drawing 4 -M-N-c) being a completion color and whether (drawing 4 -M-N-d) being a completion color, and being hard to measure the progress process and residual time of the early stages of discoloration to the time of completion with eyes.

[0004]

[Means for Solving the Problem] This invention is the phase discoloration time amount trace object which uses a heat-sensitive material or admiration ** material, is made to carry out color change of the method of presentation of the above-mentioned conventional time amount trace object gradually, and enabled it to measure with eyes and judge the progress and the remaining time to the last time amount.

[0005]

[Embodiment of the Invention] (Drawing 1 -A-B-C) is the instant-noodles container which printed or stuck the phase discoloration time amount trace object 3 on the top cover 2 of the instant-noodles container 1, or the front face of a side face.

[0006] The display object of (drawing 2 -D) senses the temperature of the boiling water poured out in the instant-noodles container 1, and a heat-sensitive material and admiration ** material carry out color change at a-b-c-d and a phase target, and it can measure the progress and the remaining time to the last completion time amount d with eyes. In addition, when carrying out color change gradually, discoloration time amount trace near a stepless story can be performed by making the pitch of color change small.

[0007] (Drawing 2 -E-F-G) may display that it disappears and carries out or an alphabetic character and a graphic form loom conversely, when the printing layer 6 of an alphabetic character or a graphic form is formed in the display of (drawing 2 -D), an alphabetic character and a graphic form are displayed at first and color change progresses gradually.

[0008] The display object of (drawing 2 -H) is circular and it makes a-b-c-d and concentric circular it carry out gradual color change toward an outside [core] circle. Moreover, color change can be carried out toward a core more conversely than an outside circle.

[0009] (Drawing 2 -I) may display that it disappears and carries out or an alphabetic character and a graphic form come out conversely, when the printing layer 6 of an alphabetic character or a graphic form is formed in a display (drawing 2 - H) object, an alphabetic character and a graphic form are displayed at first and color change progresses gradually.

[0010] ***** limitation is not carried out for example, but the alphabetic character and graphic form of above-mentioned Fig. D-I can consider the alphabetic character and graphic form of various many ways.

[0011] The principle of gradual discoloration time amount trace is a display object which carries out phase discoloration time amount trace by changing the quality of the material, the temperature, the reaction, thickness, etc. of heat-sensitive materials, such as a transfer method, a liquid crystal phenomenon method, etc. of the transfer method and crystal mold of a pyrolysis method, a sublimation phenomenon method, a chemical reaction method, a dissolution method, and an electron, using a heat-sensitive material (a heat-

sensitive pigment and heat-sensitive color).

[0012] The structure 1 (drawing 3 - J) of phase discoloration time amount trace is what fastened the heat-sensitive material (5) by transparent protection layer (4) and transparence supporters (6).

2 (drawing 3 - K) is what prepared the clear layer (4) on the heat-sensitive material (5), and prepared the printing layer (7) and transparence supporters (6) of an alphabetic character or a graphic form downward.

What (drawing 3 (drawing 3 - J) - K) prepared the thermal break (8) which changed thickness in the bottom of 3 (drawing 3 - L).

[0013] This invention carries out color change of the phase discoloration time amount trace object printed or stuck on the top cover or side face of the instant-noodles container after boiling water impregnation with the above structures, and displays cooking time amount, such as 1 minute - 5 etc. minutes.

[Effect of the Invention] Even if there is neither a clock nor a timer according to invention of claim 1, it is eaten in the most delicious condition that the manufacturer has originally set up.

[0014] According to invention of claims 1-2, gradually, the eye measurement check of the cooking time amount of a manufacturer setup can be carried out, and time amount progress and the remaining time are eaten in the most delicious condition in it by gradual color change.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] A-B-C is the inclination Fig. of the instant-noodles container which has phase discoloration time amount trace of this invention.

[Drawing 2] D-E-F-G-H-I is the transition Fig. of gradual color change of the display means of phase discoloration time amount trace.

[Drawing 3] J is the sectional view of the example of the display means which used a heat-sensitive material or admiration ** material.

K is the sectional view of the example which prepared the printing section in the display means which used a heat-sensitive material or admiration ** material.

L is the sectional view of the example which carries out gradual color change by changing the thickness of a heat-conduction layer into the display means which used a heat-sensitive material or admiration ** material.

[Drawing 4] M-N is the transition drawing of color change of the display object with which the former is proposed.

[Description of Notations]

Instant-noodles container

Top cover

Time amount trace

4 Transparent Protection Layer

5 Heat-sensitive Material and Admiration *****

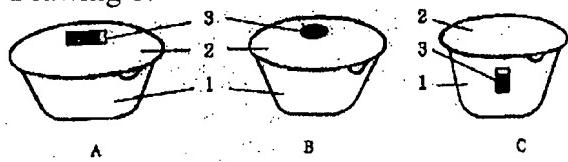
6 Transparence Supporters

7 Printing Layer

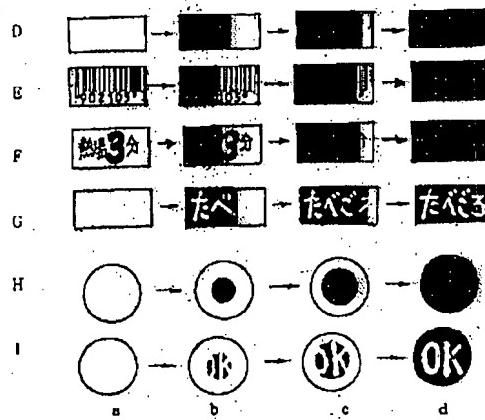
8 Time Amount Control Layer (Heat Insulator)

9 Binder Layer

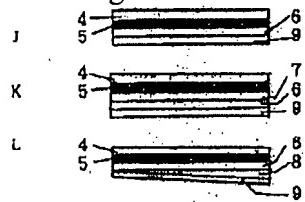
Drawing 1:



Drawing 2:



Drawing 3:



Drawing 4:

